

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Previously Presented) A method, comprising:
partitioning multiple antennas into a first tier and a second tier, the first tier having one antenna selected as a receiving antenna and non-selected antenna in the second tier;
receiving a framed digital signal having preamble symbols in a mobile device;
sequentially switching the non-selected antenna in the second tier to process portions of the preamble symbols in a receiver of the mobile device to evaluate a signal quality of signals received by the non-selected antenna; and
replacing the receiving antenna in the first tier with an antenna in the second tier that has the signal quality higher than the one antenna in the first tier.
2. (Canceled).
3. (Previously Presented) The method of claim 1 wherein evaluating a signal quality of signals received by the non-selected antenna further comprises:
demodulating the signals in a single receiver chain to generate quadrature signals;
and
comparing the quadrature signals to determine which of the non-selected antenna in the second tier provides the higher signal quality.
4. (Canceled).
5. (Previously Presented) The method of claim 1 further including:
comparing the signal quality of the signals received by the non-selected antenna in the second tier, one by one, to dynamically determine the antenna having the higher signal quality.
- 6-7. (Canceled).
8. (Previously Presented) A method, comprising:
partitioning a first antenna in a first tier and second and third antennas in a second tier;
controlling a switch in a transceiver of a mobile device to sequentially provide signals received by the second and third antennas to an input of a single receiver where preamble symbols are used to evaluate signal quality for the second and third antennas in a single frame; and

selecting the second or third antenna having a higher signal quality than the signal quality of the first antenna to replace the first antenna in the first tier as the receiving antenna for the mobile device.

9. (Previously Presented) The method of claim 8 further comprising:
evaluating the signals received by the second and third antennas to compare the signals received by the second and third antennas as to the signal quality.

10-14. (Canceled).

15. (Previously Presented) A system comprising:
a Network Interface Card (NIC) having at least three antennas coupled through a switch to an input of a single receiver in a mobile device; and
a processor coupled to the single receiver to compare quadrature signals that are demodulated from preamble symbols sequentially received by the at least three antennas, wherein the processor selects an antenna that provides a highest quality signal as a receiving antenna in a first tier and places the second and third antennas in a second tier.

16. (Original) The system of claim 15, wherein the preamble signal is received from an 802.11 a/b station and the preamble signal includes ten short and two long symbols.

17. (Original) The system of claim 15 further including:
a Static Random Access Memory (SRAM) coupled to the processor.

18. (Canceled).